

AMENDMENT**OFFERED BY MR. GORDON OF TENNESSEE**

At the end of the bill, add the following new section:

1 **SEC. ____.** **ALTERNATIVE BIOBASED FUELS AND ULTRA LOW**
2 **SULFUR DIESEL.**

3 (a) ALTERNATIVE FUEL AND ULSD INFRASTRUC-
4 TURE AND ADDITIVES RESEARCH AND DEVELOPMENT.—
5 The Secretary, in consultation with the National Institute
6 of Standards and Technology, shall carry out a program
7 of research, development, demonstration, and commercial
8 application of materials to be added to alternative
9 biobased fuels and Ultra Low Sulfur Diesel fuels to make
10 them more compatible with existing infrastructure used to
11 store and deliver petroleum-based fuels to the point of
12 final sale. The program shall address—

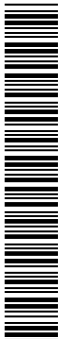
13 (1) materials to prevent or mitigate—

14 (A) corrosion of metal, plastic, rubber,
15 cork, fiberglass, glues, or any other material
16 used in pipes and storage tanks;

17 (B) dissolving of storage tank sediments;

18 (C) clogging of filters;

19 (D) contamination from water or other
20 adulterants or pollutants;



1 (E) poor flow properties related to low
2 temperatures;

3 (F) oxidative and thermal instability in
4 long-term storage and use;

5 (G) increased volatile emissions;

6 (H) microbial contamination;

7 (I) problems associated with electrical con-
8 ductivity; and

9 (J) increased nitrogen oxide emissions;

10 (2) alternatives to conventional methods for re-
11 furbishment and cleaning of gasoline and diesel
12 tanks, including tank lining applications; and

13 (3) other problems as identified by the Sec-
14 retary in consultation with the National Institute of
15 Standards and Technology.

16 (b) SULFUR TESTING FOR DIESEL FUELS.—

17 (1) PROGRAM.—The Secretary, in consultation
18 with the National Institute of Standards and Tech-
19 nology, shall carry out a research, development, and
20 demonstration program on portable, low-cost, and
21 accurate methods and technologies for testing of sul-
22 fur content in fuel, including Ultra Low Sulfur Die-
23 sel and Low Sulfur Diesel.

24 (2) SCHEDULE OF DEMONSTRATIONS.—Not
25 later than 1 year after the date of enactment of this



1 Act, the Secretary shall begin demonstrations of
2 technologies under paragraph (1).

3 (c) STANDARD REFERENCE MATERIALS AND DATA
4 BASE DEVELOPMENT.—Not later than 6 months after the
5 date of enactment of this Act, the National Institute of
6 Standards and Technology shall develop a physical prop-
7 erties data base and standard reference materials for al-
8 ternative fuels. Such data base and standard reference
9 materials shall be maintained and updated as appropriate
10 as additional alternative fuels become available.

